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SYSADJSTK Table of contents

- SYSTEM SERVICE ADJUST OUTER MODE STACK 16-SEP-1984 01:37:40 VAX/VMS Macro V04-00

SYS

(1)

ADJUST OUTER MODE STACK POINTER

- SYSTEM SERVICE ADJUST OUTER MODE STACK 16-SEP-1984 01:37:40 5-SEP-1984 03:48:34 VAX/VMS Macro V04-00 [SYS.SRC]SYSADJSTK.MAR; 1

(1)

SYS

SYSADJSTK - SYSTEM SERVICE ADJUST OUTER MODE STACK POINTER

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D. N. CUTLER 9-JAN-77

MODIFIED BY:

TMK0001 Todd M. Katz 19 Change a BSBW (to EXE\$EXPANDSTK) to a JSB. V03-003 TMK0001 19-Nov-1983

SRB0068 Steve Beckhardt Removed most of ACG0310. V03-002 SRB0068 22-Feb-1983

V03-001 ACG0310 Andrew C. Goldstein, 31-J Fix stack adjustment when stack is expanded 31-Jan-1983 13:37

RIHO031 RICHARD I. HUSTVEDT 6-AUG-1 ADD CALL TO EXESEXPANDSTK TO IMPLEMENT AUTOMATIC STACK EXPANSION FOR USER MODE STACK. 02 6-AUG-1979

SYSTEM SERVICE ADJUST OUTER MODE STACK POINTER

MACRO LIBRARY CALLS

SPSLDEF SSSDEF

DEFINE PROCESSOR STATUS FIELDS DEFINE SYSTEM STATUS VALUES

LOCAL SYMBOLS

ARGUMENT LIST OFFSET DEFINITIONS

SYSADJSTK VO4-000 - SYSTEM SERVICE ADJUST OUTER MODE STACK 16-SEP-1984 01:37:40 VAX/VMS Macro V04-00 Page 5-SEP-1984 03:48:34 [SYS.SRC]SYSADJSTK.MAR;1

0000 58; 0000 59 00000004 0000 60 ACMODE=4 00000008 0000 61 ADJUST=8 0000000C 0000 62 NEWADR=12

ACCESS MODE TO ADJUST STACK POINTER FOR 16-BIT SIGNED ADJUSTMENT VALUE ADDRESS OF LONGWORD TO STORE UPDATED VALUE

SYS

SYS

53	04 53	AC 52	02 02	AC 00 52 16 55	DO EF	00000 0000 0002 0006 000C 000E 0013	100 101 102 103 104 105		PSECT ENTRY MOVL EXTZV MOVPSL CMPZV BGEQ IFNOWRT	Y\$EXEPAGED EXE\$ADJSTK,^M <r2,r3,r NEWADR(AP),R5 #0,#2,ACMODE(AP),R3 R2 #PSL\$V_PRVMOD,#PSL\$S_ 60\$</r2,r3,r 	4.R5.R6> :GET ADDRESS TO STORE NEW STACK VALUE :GET ACCESS MODE TO MODIFY STACK POINTER FO :READ CURRENT PSL PRVMOD.R2.R3 :PREVIOUS MODE MORE PRIVILEGED? :IF GEO NO :CAN NEW STACK VALUE BE WRITTEN?
		50	56 56 56 56	653 553 800 500	DO 12 DB 32 CO CE	0015 001B 001E 0020 0023 0027	106 107 108 109 110 111 112	5\$: 10\$:	IFNOWRT MOVL BNEQ MFPR CVTWL ADDL MNEGL BLEQ MOVL CVTWL IFNOWRT	10\$ R3,R6 ADJUST(AP).R0	CAN NEW STACK VALUE BE WRITTEN? GET SPECIFIED STACK VALUE IF NEQ VALUE SPECIFIED GET ADJUSTMENT VALUE CALCULATE NEW TOP OF STACK ALLOCATION OF STACK SPACE? IF LEQ NO COPY NEW STACK VALUE
		52	51 FE00 0 ⁵¹ 6	17 56 8F 52 042 F1 56	15 00 32 C2 3E 18 DA	002D 002F 0032 0037 003D 0040 0044	113 114 115 116 117 118 119 120	20\$: 30\$:	BLEQ MOVL CVTWL IFNOWRT SUBL MOVAW BGEQ MTPR	RO,R6 RO,R0 30\$ R6,R1 #-*X200,R2 RO,(R1),40\$,R3 R2,R1 (RÓ)[R2],RO 20\$ R6,R3	IF LEG NO COPY NEW STACK VALUE SET ADDITION CONSTANT CAN ALLOCATED STACK SEGMENT BE WRITTEN? UPDATE ADDRESS IN STACK UPDATE REMAINING LENGTH IF GEQ MORE TO CHECK

Page	(1)	SY

		- SY	STEM SE	RVICE ADJUST R MODE STACK	OUTER M POINTER	NODE STACK 16-SEP-1984	01:37:40 VAX/VMS Macro V04-00 03:48:34 [SYS.SRCJSYSADJSTK.MAR;1
65 50	56 01	90 30	0049 004¢	121	MOVEWL	R6.(R5) #S\$\$_NORMAL,R0	STORE NEW STACK VALUE
53	03	D1 12	0050	124 408:	RET CMPL BNEQ PUSHR	#PSLSC_USER,R3	IS THIS FOR USER MODE STACK?
00000000 B6	51 'EF 50	12 BB DO 16 BA E8	0057 005A 0060 0062	126 127 128 129 130	PUSHR MOVL JSB POPR BLBS RET MOVZWL	508 **M <r1,r2,r3,r4,r5> R1,R2 EXESEXPANDSTK **M<r1,r2,r3,r4,r5> R0,58</r1,r2,r3,r4,r5></r1,r2,r3,r4,r5>	: AUGMENT STACK TO MAKE ACCESSIBLE : RESTORE REGISTERS : REPEAT CHECKS
50	00	30	0066	132 508:	MOVZWL	#SS\$_ACCVIO,RO	SET ACCESS VIOLATION
50	24	3C 04	006A 006D 006E 006E	134 60\$: 135 136 137	MOVZWL RET	#SS\$_NOPRIV,RO	SET NO PRIVILEGE

```
SYS
```

```
- SYSTEM SERVICE ADJUST OUTER MODE STACK 16-SEP-1984 01:37:40 VAX/VMS Macro V04-00 5-SEP-1984 03:48:34 [SYS.SRC]SYSADJSTK.MAR;1
 SYSADJSTK
                                                                                                                                                                                                                                                    Page
 Symbol table
                                                              = 00000004
= 00000008
00000000 RG
 ACMODE
 ADJUST
EXESADJSTK
EXESEXPANDSTK
                                                                   *******
NEWADR
PSL$C_USER
PSL$S_PRVMOD
PSL$V_PRVMOD
SS$_ACCVIO
SS$_NOPRIV
SS$_NORMAL
                                                              = 00000000
= 00000003
= 00000002
= 000000000
= 000000024
                                                                                                   Psect synopsis
PSECT name
                                                                Allocation
                                                                                                        PSECT No.
                                                                                                                             Attributes
                                                                                                                             NOPIC
NOPIC
NOPIC
      ABS
                                                                00000000
                                                                                                                                                                                                    NOEXE NORD
EXE RD
EXE RD
                                                                                                                                                                                                                                 WRT NOVEC BYTE WRT NOVEC BYTE WRT NOVEC BYTE
                                                                                                                    0.)
 SABSS
                                                                00000000
                                                                                                                                             USR
                                                                                                                                                         CON
                                                                                                                                                                     ABS
                                                                                                                                                                                         NOSHR
 YSEXEPAGED
                                                                0000006E
                                                                                                                                                                                         NOSHR
                                                                                             Performance indicators
Phase
                                                  Page faults
                                                                                CPU Time
                                                                                                              Elapsed Time
----
                                                                               00:00:00.10
00:00:00.60
00:00:04.25
00:00:00.69
00:00:00.76
00:00:00.02
00:00:00.03
                                                                                                             00:00:00.43
00:00:04.80
00:00:14.53
00:00:02.12
00:00:05.12
Initialization
Command processing
Pass 1
Symbol table sort
Pass 2
                                                                                                             00:00:00.03
00:00:00.03
00:00:00.00
Symbol table output
Psect synopsis output
Cross-reference output
Assembler run totals
                                                                                00:00:06.45
The working set limit was 1200 pages. 22668 bytes (45 pages) of virtual memory were used to buffer the intermediate code. There were 30 pages of symbol table space allocated to hold 451 non-local and 7 local symbols. 137 source lines were read in Pass 1, producing 16 object records in Pass 2. 10 pages of virtual memory were used to define 9 macros.
                                                                                           Macro library statistics
Macro library name
                                                                                          Macros defined
_$255$DUA28:[SYS.OBJ]LIB.MLB;1
_$255$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)
```

516 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

SYSADJSTK - SYSTEM SERVICE ADJUST OUTER MODE STACK 16-SEP-1984 01:37:40 VAX/VMS Macro V04-00 Page 6 VAX-11 Macro Run Statistics - SYSTEM SERVICE ADJUST OUTER MODE STACK 16-SEP-1984 03:48:34 [SYS.SRCJSYSADJSTK.MAR;1]

MACRO/LIS=LIS\$:SYSADJSTK/OBJ=OBJ\$:SYSADJSTK MSRC\$:SYSADJSTK/UPDATE=(ENH\$:SYSADJSTK)+EXECML\$/LIB

SYS

0381 AH-BT13A-SE

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